

453195.txt
SEQUENCE LISTING

<110> Ligensa, Tanja
Schumacher, Ralf
Weidner, Michael

<120> IGF-1 Receptor Interacting Proteins

<130> 09/453,195

<140> 09/453,195

<141> 1999-12-02

<150> EPO 98122992.5

<151> 1998-12-03

<160> 10

<170> PatentIn Ver. 2.1

<210> 1

<211> 1707

<212> DNA

<213> Homo sapiens

<220>

<223> n at position 186, 187, 203, and 205 is a, t, g, or c.

<400> 1

gaaaccaca ggaggcaacc acactagttt agatcttctg gtgacccac ttctcgtgc 60
tcatgccgct gggactgggg cggcggaaaa aggcgcccc tctagtggaa aatgaggagg 120
ctgagccagg ccgtggaggg ctgggcgtgg gggagccagg gcctctgggc ggaggtgggt 180
cggggnccc ccaaattggc ttncncccc ctccccagc cctgcggccc cgcctcgtgt 240
tccacacca gctggcccat ggcagtccca ctggccgcat cgagggcttc accaactca 300
aggagctgta tggcaagatc gccgaggcct tccgcctgcc aactgccgag gtgatgttct 360
gcaccctgaa caccacaaa gtggacatgg acaagctcct ggggggccag atcgggctgg 420
aggacttcat cttcgccac gtgaaggggc agcgcaagga ggtggaggtg ttcaagtcgg 480
aggatgcact cgggctcacc atcacggaca acggggctgg ctacgccttc atcaagcgca 540

453195.txt

tcaaggaggg cagcgtgac gaccacatcc acctcatcag cgtggggcgac atgatcgagg 600
 ccattaacgg gcagagcctg ctgggctgcc ggcactacga ggtggcccgg ctgctcaagg 660
 agctgccccg aggccgtacc ttcacgctga agctcacgga gcctcgcaag gccttcgaca 720
 tgatcagcca gcgttcagcg ggtggccgcc ctggctcttg cccacaactg ggcactggcc 780
 gagggaccct gcggctccga tcccggggcc ccgccacggt ggaggatctg ccctctgcct 840
 ttgaagagaa ggccattgag aaggtggatg acctgctgga gagttacatg ggtatcaggg 900
 acacggagct ggcagccacc atggtggagc tgggaaagga caaaaggaac ccgatgagc 960
 tggccgaggc cctggacgaa cggctgggtg actttgcctt ccctgacgag ttcgtctttg 1020
 acgtctgggg cgccattggg gacgccaaagg tcggccgcta ctaggactgc ccccggaccc 1080
 tgcgatgatg acccgggagc aacctgggtg gggccccag cagggacact gacgtcagga 1140
 cccgagcctc cagcctgagc ctagctcagc agcccaagga cgatggtgag gggaggtggg 1200
 gccaggcccc ctgccccgct ccactcggta ccacccctc cctggttccc agtctggccg 1260
 ggggtccccg cccccctgtg ccctggttccc cacctacctc agctgggtca ggcacaggga 1320
 ggggagggat cagccaaatt gggcgggcac cccgcctcc accactttcc accatcagct 1380
 gccaaactgg tccctctgtc tccctggggc cttgggttct gtttgggggt catgaccttc 1440
 ctagtttcct gacgcaggga atacaggga gagggttgtc cttcccccca gcaaagtcaa 1500
 taatgccctc acccctcctg agaggagccc cctccctgtg gagcctgtta cctccgcatt 1560
 tgacacgagt ctgctgtgaa ccccgcaacc tcctccccac ctccatctc tccttccagg 1620
 cccatccctg gccagagca ggaggaggg agggacgatg gcggtggggt tttgtatctg 1680
 aatttgctgt cttgaacata aagaatc 1707

<210> 2

<211> 333

<212> PRT

<213> Homo sapiens

<220>

<223> Xaa at position 42, 47, and 48 is any one of the twenty naturally occurring amino acids.

<400> 2

```

Met  Pro  Leu  Gly  Leu  Gly  Arg  Arg  Lys  Lys  Ala  Pro  Pro  Leu  Val  Glu
 1              5              10              15

Asn  Glu  Glu  Ala  Glu  Pro  Gly  Arg  Gly  Gly  Leu  Gly  Val  Gly  Glu  Pro
          20              25              30

Gly  Pro  Leu  Gly  Gly  Gly  Gly  Ser  Gly  Xaa  Pro  Gln  Met  Gly  Xaa  Xaa
          35              40              45

Pro  Pro  Pro  Pro  Ala  Leu  Arg  Pro  Arg  Leu  Val  Phe  His  Thr  Gln  Leu
          50              55              60

Ala  His  Gly  Ser  Pro  Thr  Gly  Arg  Ile  Glu  Gly  Phe  Thr  Asn  Val  Lys
 65              70              75              80

Glu  Leu  Tyr  Gly  Lys  Ile  Ala  Glu  Ala  Phe  Arg  Leu  Pro  Thr  Ala  Glu
          85              90              95

Val  Met  Phe  Cys  Thr  Leu  Asn  Thr  His  Lys  Val  Asp  Met  Asp  Lys  Leu
          100              105              110

Leu  Gly  Gly  Gln  Ile  Gly  Leu  Glu  Asp  Phe  Ile  Phe  Ala  His  Val  Lys
          115              120              125

Gly  Gln  Arg  Lys  Glu  Val  Glu  Val  Phe  Lys  Ser  Glu  Asp  Ala  Leu  Gly
          130              135              140

Leu  Thr  Ile  Thr  Asp  Asn  Gly  Ala  Gly  Tyr  Ala  Phe  Ile  Lys  Arg  Ile
145              150              155              160

Lys  Glu  Gly  Ser  Val  Ile  Asp  His  Ile  His  Leu  Ile  Ser  Val  Gly  Asp
          165              170              175

Met  Ile  Glu  Ala  Ile  Asn  Gly  Gln  Ser  Leu  Leu  Gly  Cys  Arg  His  Tyr
          180              185              190

Glu  Val  Ala  Arg  Leu  Leu  Lys  Glu  Leu  Pro  Arg  Gly  Arg  Thr  Phe  Thr
          195              200              205

Leu  Lys  Leu  Thr  Glu  Pro  Arg  Lys  Ala  Phe  Asp  Met  Ile  Ser  Gln  Arg
          210              215              220

Ser  Ala  Gly  Gly  Arg  Pro  Gly  Ser  Gly  Pro  Gln  Leu  Gly  Thr  Gly  Arg
225              230              235              240

```

453195.txt

Gly Thr Leu Arg Leu Arg Ser Arg Gly Pro Ala Thr Val Glu Asp Leu
 245 250 255

Pro Ser Ala Phe Glu Glu Lys Ala Ile Glu Lys Val Asp Asp Leu Leu
 260 265 270

Glu Ser Tyr Met Gly Ile Arg Asp Thr Glu Leu Ala Ala Thr Met Val
 275 280 285

Glu Leu Gly Lys Asp Lys Arg Asn Pro Asp Glu Leu Ala Glu Ala Leu
 290 295 300

Asp Glu Arg Leu Gly Asp Phe Ala Phe Pro Asp Glu Phe Val Phe Asp
 305 310 315 320

Val Trp Gly Ala Ile Gly Asp Ala Lys Val Gly Arg Tyr
 325 330

<210> 3

<211> 380

<212> DNA

<213> Homo sapiens

<220>

<223> n at position 369 is a, t, g, or c.

<400> 3

gccgaggaag gagaaggggc taaaccttgg agagtggatg gctcaaagga ttctcagatc 60
 acacctcggg aggatcatgg gcaggagagc ctgttggcag ggctccacgg aacgcatcca 120
 ccaaagacaa ggcagaaagt cactgcccac gccggaggcc ccggggatcc catgcttttt 180
 tcaagcccag agacagatga gaagcttttt atatgtgctg agtgtggcaa aaccttcaac 240
 aatacctcca acctgagaac gcaccagcgg atccacactg gcgagaagcc ctacatgtgt 300
 tccgagtgtg gcaagagttt ctcccggagc tccaaccgca tccggcacga gcgcatccac 360
 ctggaagana agcactctga 380

<210> 4

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<223> Xaa at position 123 is any one of the twenty naturally occurring amino acids.

<400> 4

Ala Glu Glu Gly Glu Gly Ala Lys Pro Trp Arg Val Asp Gly Ser Lys
1 5 10 15

Asp Ser Gln Ile Thr Pro Arg Glu Asp His Gly Gln Glu Ser Leu Leu
20 25 30

Ala Gly Leu His Gly Thr His Pro Pro Lys Thr Arg Gln Lys Val Thr
35 40 45

Ala Gln Ala Gly Gly Pro Gly Asp Pro Met Leu Phe Ser Ser Pro Glu
50 55 60

Thr Asp Glu Lys Leu Phe Ile Cys Ala Gln Cys Gly Lys Thr Phe Asn
65 70 75 80

Asn Thr Ser Asn Leu Arg Thr His Gln Arg Ile His Thr Gly Glu Lys
85 90 95

Pro Tyr Met Cys Ser Glu Cys Gly Lys Ser Phe Ser Arg Ser Ser Asn
100 105 110

Arg Ile Arg His Glu Arg Ile His Leu Glu Xaa Lys His Ser
115 120 125

<210> 5

<211> 678

<212> DNA

<213> Homo sapiens

<400> 5

atgtcgagac cccggaagag gctggctggg acttctgggt cagacaaggg actatcagga 60

aaacgcacca aaactgagaa ctcaggtgag gcattagcta aagtggagga ctccaaccct 120

cagaagactt cagccactaa aaactgtttg aagaatctaa gcagccactg gctgatgaag 180

tcagagccag agagccgcct agagaaaggt gtagatgtga agttcagcat tgaggatctc 240

aaagcacagc ccaaacagac aacatgctgg gatggtgttc gtaactacca ggctcggaac 300

453195.txt

ttccttagag ccatgaagct gggagaagaa gccttcttct accatagcaa ctgcaaagag 360
ccaggcatcg caggactcat gaagatcgtg aaagaggctt acccagacca cacacagttt 420
gagaaaaaca atccccatta tgacccatct agcaaagagg acaaccctaa gtggtccatg 480
gtggatgtac agtttggtcg gatgatgaaa cgtttcattc ccctgggtga gctcaaattcc 540
tatcatcaag ctacaaaagc tactgggtggc cccttaaaaa atatgggttct cttcactcgc 600
cagagattat caatccagcc cctgaccag gaagagtttg attttgtttt gagcctggag 660
gaaaaggaac caagttaa 678

<210> 6

<211> 225

<212> PRT

<213> Homo sapiens

<400> 6

Met Ser Arg Pro Arg Lys Arg Leu Ala Gly Thr Ser Gly Ser Asp Lys
1 5 10 15

Gly Leu Ser Gly Lys Arg Thr Lys Thr Glu Asn Ser Gly Glu Ala Leu
20 25 30

Ala Lys Val Glu Asp Ser Asn Pro Gln Lys Thr Ser Ala Thr Lys Asn
35 40 45

Cys Leu Lys Asn Leu Ser Ser His Trp Leu Met Lys Ser Glu Pro Glu
50 55 60

Ser Arg Leu Glu Lys Gly Val Asp Val Lys Phe Ser Ile Glu Asp Leu
65 70 75 80

Lys Ala Gln Pro Lys Gln Thr Thr Cys Trp Asp Gly Val Arg Asn Tyr
85 90 95

Gln Ala Arg Asn Phe Leu Arg Ala Met Lys Leu Gly Glu Glu Ala Phe
100 105 110

Phe Tyr His Ser Asn Cys Lys Glu Pro Gly Ile Ala Gly Leu Met Lys
115 120 125

Ile Val Lys Glu Ala Tyr Pro Asp His Thr Gln Phe Glu Lys Asn Asn
130 135 140

453195.txt

Pro	His	Tyr	Asp	Pro	Ser	Ser	Lys	Glu	Asp	Asn	Pro	Lys	Trp	Ser	Met
145					150					155					160
Val	Asp	Val	Gln	Phe	Val	Arg	Met	Met	Lys	Arg	Phe	Ile	Pro	Leu	Ala
				165					170					175	
Glu	Leu	Lys	Ser	Tyr	His	Gln	Ala	His	Lys	Ala	Thr	Gly	Gly	Pro	Leu
			180					185					190		
Lys	Asn	Met	Val	Leu	Phe	Thr	Arg	Gln	Arg	Leu	Ser	Ile	Gln	Pro	Leu
		195					200					205			
Thr	Gln	Glu	Glu	Phe	Asp	Phe	Val	Leu	Ser	Leu	Glu	Glu	Lys	Glu	Pro
	210					215					220				
Ser															
225															

<210> 7

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer TIP2c-s

<400> 7

gaaacccaca ggaggcaa

18

<210> 8

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer TIP2b-r

<400> 8

ggatcatcatc gcagggtc

18

<210> 9

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer Hcthy-s

<400> 9

agcttgcggc cgcagatgtc gagaccccg aag

33

<210> 10

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer Hcthy-r

<400> 10

agcttgcggc cgcgaattct taacttggtt ccttttcctc

40